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PPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/533,559 03/22/2000		03/22/2000	Randy M. Berka	5849.200-US	6980
25907	7590	11/06/2003	EXAMINER		
		TECH, INC.	BRUSCA, JOHN S		
1445 DREW AVE DAVIS, CA 95616				ART UNIT	PAPER NUMBER
2	,,,,,,			1631	

DATE MAILED: 11/06/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
	09/533,559	BERKA ET AL.						
Office Action Summary	Examiner	Art Unit						
	John S. Brusca	1631						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address P riod for Reply								
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by stat - Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, however, may eply within the statutory minimum of tood will apply and will expire SIX (6) M tute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U S.C. § 133)						
1) Responsive to communication(s) filed on 20	6 September 2003							
2a) This action is FINAL . 2b) ⊠	This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4)⊠ Claim(s) 103-110 is/are pending in the application.								
4a) Of the above claim(s) is/are withdo	rawn from consideration.							
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>103-110</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9)☐ The specification is objected to by the Examin	ner.							
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to by	the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on	is: a) approved b)	disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the I	Examiner.							
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
 Certified copies of the priority docume 	ints have been received.							
2. Certified copies of the priority docume	ents have been received in	Application No						
 3. Copies of the certified copies of the praphication from the International E * See the attached detailed Office action for a limit 	Bureau (PCT Rule 17.2(a)).						
14) Acknowledgment is made of a claim for dome								
a) The translation of the foreign language p								
15)⊠ Acknowledgment is made of a claim for dome	• •							
Attachment(s)								
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)						

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is cligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 26 September 2003 has been entered.
- 2. The amendment filed 12 May 2003 has been entered due to the above submission.

Claim Rejections - 35 USC 101 and 112

3. <u>Definitions: [from REVISED INTERIM UTILITY GUIDELINES TRAINING MATERIALS; repeated from http://www.uspto.gov/web/menu/utility.pdf]</u>

"Credible Utility" - Where an applicant has specifically asserted that an invention has a particular utility, that assertion cannot simply be dismissed by Office personnel as being "wrong". Rather, Office personnel must determine if the assertion of utility is credible (i.e., whether the assertion of utility is believable to a person of ordinary skill in the art based on the totality of evidence and reasoning provided). An assertion is credible unless (A) the logic underlying the assertion is seriously flawed, or (B) the facts upon which the assertion is based is inconsistent with the logic underlying the assertion. Credibility as used in this context refers to the reliability of the statement based on the logic and facts that are offered by the applicant to support the assertion of utility. A *credible* utility is assessed from the standpoint of whether a person of ordinary skill in the art would accept that the recited or disclosed invention is currently available for such use. For example, no perpetual motion machines would be considered to be currently available. However, nucleic acids could be used as probes, chromosome markers, or forensic or diagnostic markers. Therefore, the credibility of such an assertion would not be questioned, although such a use might fail the *specific* and *substantial* tests (see below).

"Specific Utility" - A utility that is *specific* to the subject matter claimed. This contrasts with a *general* utility that would be applicable to the broad class of the invention. For example, a claim to a polynucleotide whose use is disclosed simply as a "gene probe" or "chromosome marker" would not be considered to be *specific* in the absence of a disclosure of a specific DNA target. Similarly, a general statement of diagnostic utility, such as diagnosing an unspecified disease, would ordinarily be insufficient absent a disclosure of what condition can be diagnosed.

"Substantial utility" - A utility that defines a "real world" use. Utilities that require or constitute carrying out further research to identify or reasonably confirm a "real world" context of use are not substantial utilities. For example, both a therapeutic method of treating a known or newly discovered disease and an assay method for identifying compounds that themselves have a "substantial utility" define a "real world" context of use. An assay that measures the presence of a material which has a stated correlation to a predisposition to the onset of a particular disease condition would also define a "real world" context of use in identifying potential candidates for preventive measures or further monitoring. On the other hand, the

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following are examples of situations that require or constitute carrying out further research to identify or reasonably confirm a "real world" context of use and, therefore, do not define "substantial utilities":

A. Basic research such as studying the properties of the claimed product itself or the mechanisms in which the material is involved.

- B. A method of treating an unspecified disease or condition. (Note, this is in contrast to the general rule that treatments of specific diseases or conditions meet the criteria of 35 U.S.C. '101.)
- C. A Method of assaying for or identifying a material that itself has no "specific and/or substantial utility".
- D. A method of making a material that itself has no specific, substantial, and credible utility.
- E. A claim to an intermediate product for use in making a final product that has no specific, substantial, and credible utility.

Note that "throw away" utilities do not meet the tests for a *specific* or *substantial* utility. For example, using transgenic mice as snake food is a utility that is neither specific (all mice could function as snake food) nor substantial (using a mouse costing tens of thousands of dollars to produce as snake food is not a "real world" context of use). Similarly, use of any protein as an animal food supplement or a shampoo ingredient are "throw away" utilities that would not pass muster as specific or substantial utilities under 35 U.S.C. '101. This analysis should, or course, be tempered by consideration of the context and nature of the invention. For example, it a transgenic mouse was generated with the specific provision of an enhanced nutrient profile, and disclosed for use as an animal food, then the test for specific and substantial *asserted* utility would be considered to be met.

A "Well established utility" - a specific, substantial, and credible utility which is well known, immediately apparent, or implied by the specification's disclosure of the properties of a material, alone or taken with the knowledge of one skilled in the art. "Well established utility" does not encompass any "throw away" utility that one can dream up for an invention or a nonspecific utility that would apply to virtually every member of a general class of materials, such as proteins or DNA. If this is the case, any product or apparatus, including perpetual motion machines, would have a "well established utility" as landfill, an amusement device, a toy, or a paper weight; any carbon containing molecule would have a "well established utility" as a fuel since it can be burned; any protein would have well established utility as a protein supplement for animal food. This is not the intention of the statute.

See also the MPEP at 2107 - 2107.02.

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. Claims 103-110 are rejected under 35 U.S.C. 101 because the claimed invention lacks patentable utility.

The claimed combination of nucleic acids is not supported by a substantial utility because no substantial utility has been established for the claimed subject matter. The disclosed utility is to use an array of Aspergillus oryzae ESTs to determine expression profiles that are correlated with different types of cells or different growth states of cells. No evidence has been disclosed

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that the elected SEQ ID NOS allow for determination of the state or type of cell that is assayed by the claimed method of using an array of Aspergillus oryzae ESTs. Further research is required to determine whether the claimed method utilizes ESTs that allow for useful discrimination between cell types or cell states. The research required to establish the utility of the claimed method is not consistent with a substantial utility. Identifying and studying the properties of an array of ESTs does not define a "real world" context or use. Neither the specification as filed nor any art of record discloses or suggests any property or activity for the array of ESTs such that another non-asserted utility would be well established for the compounds.

- 6. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 7. Claims 103-110 are also rejected under 35 U.S.C. 112, first paragraph. Specifically, since the claimed invention is not supported by a substantial utility or a well established utility for the reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention.
- 8. Applicant's arguments filed 26 September 2003 have been fully considered but they are not persuasive. The applicants point to the declaration under 37 CFR 1.132 by Randy Berka for support of utility of the claimed invention. However it is not apparent that the data in the example detailed in the declaration comprises the probes of SEQ ID NO: 4377-7401 to which the claimed invention is limited. For example, a review of Table 3 of the specification does not reveal description of probe TREMBL Q96WT5 of the declaration. As such it cannot be determined whether the data of the declaration supports a utility of the claimed invention.

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9. The rejection of the Office action mailed 07 November 2002 for lack of written description under 35 U.S.C. 112, first paragraph has not been extended to newly filed claims 103-110 in view of the amendment filed 12 May 2003.

10. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

11. Claims 103-110 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 103-110 are indefinite because they are not limited to a combination consisting of SEQ ID NO: 4377-740, which is the elected combination of sequences.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John S. Brusca whose telephone number is 703 308-4231. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward can be reached on 703 308-4028. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308-0196.

John S. Brusca Primary Examiner Art Unit 1631

jsb